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Issued October, 1927.

United States Department of Agriculture

(AGRICULTURAL ECONOMICS)

SERVICE AND REGULATORY ANNOUNCEMENTS NO. 108

UNITED STATES STANDARDS FOR MILLED RICE, BROWN RICE, AND ROUGH RICE

UNITED STATES DEPARTMENT OF AGRICULTURE,
Washington, D. C.

By virtue of the authority vested in the Secretary of Agriculture by the act of Congress entitled "An act making appropriations for the Department of Agriculture for the fiscal year ending June 30, 1928, and for other purposes," approved January 18, 1927 (Public No. 522, 69th Cong.), I, W. M. Jardine, Secretary of Agriculture, do hereby fix, establish, and promulgate the following standards of class, quality and condition for milled rice, brown rice, and rough rice, which shall become the official standards of the United States for the inspection and certification of such rices on the 15th day of September, 1927, and be in force and effect as long as Congress shall provide the necessary authority therefor, unless amended or superseded by standards hereafter prescribed and promulgated under such authority.

In testimony whereof I have hereunto set my hand and caused the official seal of the Department of Agriculture to be affixed, in the city of Washington, this 6th day of September, 1927.



W M Jardine

Secretary of Agriculture.

STANDARDS FOR MILLED RICE

For the purposes of the United States standards for milled rice:

Milled rice.—Milled rice shall be whole or broken kernels of rice grown in continental United States, from which the hulls and practically all of the germs and bran layers have been removed, which may be either coated or uncoated, and which does not contain more than 10 per cent of cereal grains, including paddy grains, seeds, or other foreign material, either singly or in any combination.

NOTE.—Milled rice for the purposes of the grades is divided into classes and subclasses as follows: Class I, Honduras milled rice; Class II, Edith milled rice; Class III, Fortuna milled rice; Class IV, Carolina milled rice; Class V, Lady Wright milled rice; Class VI, Blue Rose milled rice; Class VII, Early Prolific milled rice; Class VIII, Japan milled rice, divided into subclasses (a) Japan milled rice and (b) California Japan milled rice; Class IX, Second Head milled rice; Class X, Screenings milled rice, divided into subclasses (a) Screenings milled rice and (b) California-Japan screenings milled rice; Class XI, Brewers' milled rice, divided into subclasses (a) Brewers' milled rice and (b) California-Japan Brewers' milled rice; and Mixed milled rice.

HONDURAS MILLED RICE (CLASS D)

This class shall include the rices known commercially as Honduras and Mortgage Lifter, which contain more than 25 per cent of whole kernels, and may include not more than 10 per cent of whole kernels of rice of any other class or classes.

EDITH MILLED RICE (CLASS II)

This class shall include the rice known commercially as Edith, which contains more than 25 per cent of whole kernels, and may include not more than 10 per cent of whole kernels of rice of any other class or classes.

FORTUNA MILLED RICE (CLASS III)

This class shall include the rice known commercially as Fortuna, which contains more than 25 per cent of whole kernels, and may include not more than 10 per cent of whole kernels of rice of any other class or classes.

CAROLINA MILLED RICE (CLASS IV)

This class shall include the rices known commercially as Carolina and Storm Proof, which contain more than 25 per cent of whole kernels, and may include not more than 10 per cent of whole kernels of rice of any other class or classes.

LADY WRIGHT MILLED RICE (CLASS V)

This class shall include the rice known commercially as Lady Wright, which contains more than 25 per cent of whole kernels, and may include not more than 10 per cent of whole kernels of rice of any other class or classes.

Grade requirements for the classes Honduras, Edith, Fortuna, Carolina, and Lady Wright milled rice

United States grade	Maximum limits of—						
	Cereal grains, seeds, and heat damage (number in 500 grams)		Red rice and damage other than heat (singly or combined)	Chalky kernels	Broken kernels		Other rices
	Total	Heat damage and seeds (singly or combined)			Total	Through No. 6 sieve	
	Number	Number	Per cent	Per cent	Per cent	Per cent	Per cent
Extra Fancy (U. S. No. 1).....	3	1	0.5	1.0	10	0.3	1
Fancy (U. S. No. 2).....	7	4	1.5	1.5	15	.5	2
Extra Choice (U. S. No. 3).....	12	7	2.0	2.0	20	.7	4
Choice (U. S. No. 4).....	18	10	2.5	3.0	25	1.0	6
Medium (U. S. No. 5).....	40	25	6.0	6.0	35	2.0	10

Sample grade: Sample grade shall be milled rice of the classes Honduras, or Edith, or Fortuna, or Carolina, or Lady Wright, respectively, which does not come within the requirements of any of the grades from Extra Fancy (U. S. No. 1) to Medium (U. S. No. 5), inclusive, or which has any commercially objectionable foreign odor, or is musty, or sour, or is heating, or hot, or is of a badly damaged or extremely red appearance, or is otherwise of distinctly low quality, or contains more than 0.1 per cent of foreign material excepting paddy grains, other cereal grains, and seeds.

The percentage of moisture in the grades Extra Fancy (U. S. No. 1), Fancy (U. S. No. 2), Extra Choice (U. S. No. 3), Choice (U. S. No. 4), and Medium (U. S. No. 5) shall not exceed 14.5.

Color and general appearance.—Rice of the grade Extra Fancy (U. S. No. 1) shall be white or creamy and shall be well milled. Rice of the grade Fancy (U. S. No. 2) shall be white, creamy, or grayish, and shall be well milled. Rice of the grade Extra Choice (U. S. No. 3) shall be white, creamy, or grayish, and shall be reasonably well milled. Rice of the grade Choice (U. S. No. 4) shall be white, creamy, or grayish, and may be slightly rosy, and shall be reasonably well milled. Rice of the grade Medium (U. S. No. 5) may be of slightly damaged or red appearance.

BLUE ROSE MILLED RICE (CLASS VI)

This class shall include the rices known commercially as Blue Rose, Greater Blue Rose, and Improved Blue Rose, which contain more than 25 per cent of whole kernels and may include not more than 10 per cent of whole kernels of rice of any other class or classes.

EARLY PROLIFIC MILLED RICE (CLASS VII)

This class shall include the rice known commercially as Early Prolific, which contains more than 25 per cent of whole kernels and may include not more than 10 per cent of whole kernels of rice of any other class or classes.

Grade requirements for the classes Blue Rose and Early Prolific milled rice

United States grade	Maximum limits of—						
	Cereal grains, seeds, and heat damage (number in 500 grams)		Red rice and damage other than heat (singly or combined)	Chalky kernels	Broken kernels		Other rices
	Total	Heat damage and seeds (singly or combined)			Total	Through No. 6 sieve	
	Number	Number	Per cent	Per cent	Per cent	Per cent	Per cent
Extra Fancy (U. S. No. 1)-----	3	1	0.5	1.0	5	0.3	1
Fancy (U. S. No. 2)-----	7	4	1.5	1.5	10	.5	2
Extra Choice (U. S. No. 3)-----	12	7	2.0	2.0	15	.7	4
Choice (U. S. No. 4)-----	18	10	2.5	3.0	20	1.0	6
Medium (U. S. No. 5)-----	40	25	6.0	6.0	35	2.0	10

Sample grade: Sample grade shall be milled rice of the classes Blue Rose or Early Prolific, respectively, which does not come within the requirements of any of the grades from Extra Fancy (U. S. No. 1) to Medium (U. S. No. 5), inclusive, or which has any commercially objectionable foreign odor, or is musty, or sour, or is heating, or hot, or is of a badly damaged or extremely red appearance, or is otherwise of distinctly low quality, or contains more than 0.1 per cent of foreign material, excepting paddy grains, other cereal grains, and seeds.

The percentage of moisture in the grades Extra Fancy (U. S. No. 1), Fancy (U. S. No. 2), Extra Choice (U. S. No. 3), Choice (U. S. No. 4), and Medium (U. S. No. 5) shall not exceed 14.5.

Color and general appearance.—Rice of the grade Extra Fancy (U. S. No. 1) shall be white or creamy and shall be well milled. Rice of the grade Fancy (U. S. No. 2) shall be white, creamy, or grayish, and shall be well milled. Rice of the grade Extra Choice (U. S. No. 3) shall be white, creamy, or grayish, and shall be reasonably well milled. Rice of the grade Choice (U. S. No. 4) shall be white, creamy, or grayish, and may be slightly rosy, and shall be reasonably well milled. Rice of the grade Medium (U. S. No. 5) may be of slightly damaged or red appearance.

JAPAN MILLED RICE (CLASS VIII)

This class shall include the rices known commercially as Japan, which contain more than 25 per cent of whole kernels, and may include not more than 10 per cent of whole kernels of rice of any other class or classes. This class shall be divided into two subclasses: (a) Japan milled rice and (b) California-Japan milled rice.

SUBCLASS (A) JAPAN MILLED RICE

This subclass shall include all rices known commercially as Japan possessing the characteristics of rice of this class as grown east of the Rocky Mountains.

Grade requirements for the subclass Japan milled rice

United States grade	Maximum limits of—						
	Cereal grains, seeds, and heat damage (number in 500 grams)		Red rice and damage other than heat (singly or combined)	Chalky kernels	Broken kernels		Other rices
	Total	Heat damage and seeds (singly or combined)			Total	Through No. 6 sieve	
	Number	Number	Per cent	Per cent	Per cent	Per cent	Per cent
Extra Fancy (U. S. No. 1).....	3	1	0.5	2.0	5	0.3	1
Fancy (U. S. No. 2).....	7	4	1.5	4.0	10	.5	2
Extra Choice (U. S. No. 3).....	12	7	2.0	6.0	15	.7	4
Choice (U. S. No. 4).....	18	10	2.5	8.0	20	1.0	6
Medium (U. S. No. 5).....	40	25	6.0	10.0	35	2.0	10

Sample grade: Sample grade shall be milled rice of the subclass Japan milled rice, which does not come within the requirements of any of the grades from Extra Fancy (U. S. No. 1) to Medium (U. S. No. 5) inclusive, or which has any commercially objectionable foreign odor, or is musty, or sour, or is heating, or hot, or is of a badly damaged or extremely red appearance, or is otherwise of distinctly low quality, or contains more than 0.1 per cent of foreign material excepting paddy grains, other cereal grains, and seeds.

The percentage of moisture in the grades Extra Fancy (U. S. No. 1), Fancy (U. S. No. 2), Extra Choice (U. S. No. 3), Choice (U. S. No. 4), and Medium (U. S. No. 5) shall not exceed 14.5.

Color and general appearance.—Rice of the grade Extra Fancy (U. S. No. 1) shall be white or creamy and shall be well milled. Rice of the grade Fancy (U. S. No. 2) shall be white, creamy, or grayish, and shall be well milled. Rice of the grade Extra Choice (U. S. No. 3) shall be white, creamy, or grayish, and shall be reasonably well milled. Rice of the grade Choice (U. S. No. 4) shall be white, creamy, or grayish, and may be slightly rosy, and shall be reasonably well milled. Rice of the grade Medium (U. S. No. 5) may be of slightly damaged or red appearance.

SUBCLASS (B) CALIFORNIA-JAPAN MILLED RICE

This subclass shall include all rices known commercially as Japan possessing the characteristics of rice of this class as grown west of the Great Plains area of the United States.

Grade requirements for the subclass California-Japan milled rice

United States grade	Maximum limits of—						
	Cereal grains, seeds, and heat damage (number in 500 grams)		Red rice and damage other than heat (singly or combined)	Chalky kernels	Broken kernels		Other rices
	Total	Heat damage			Total	Through No. 6 sieve	
	Number	Number	Per cent	Per cent	Per cent	Per cent	Per cent
Extra Fancy (U. S. No. 1) ¹	3	0	0.2	2.0	5	0.3	0.2
Fancy (U. S. No. 2).....	7	2	.5	4.0	10	.5	.4
Extra Choice (U. S. No. 3).....	12	3	1.0	6.0	15	.7	1.0
Choice (U. S. No. 4).....	18	5	1.5	8.0	20	1.0	3.0
Medium (U. S. No. 5).....	25	7	2.0	10.0	25	2.0	5.0

¹ The grade Extra Fancy shall contain no cereal grains other than paddy grains and may contain not more than one mud lump.

Sample grade: Sample grade shall be milled rice of the subclass California-Japan milled rice, which does not come within the requirements for any of the grades from Extra Fancy (U. S. No. 1) to Medium (U. S. No. 5), inclusive, or which has any commercially objectionable foreign odor, or is musty, or sour, or is heating, or hot, or is of a badly damaged or extremely red appearance, or is otherwise of distinctly low quality, or contains more than 0.1 per cent of foreign material excepting paddy grains, other cereal grains, and seeds.

The percentage of moisture in the grades Extra Fancy (U. S. No. 1), Fancy (U. S. No. 2), Extra Choice (U. S. No. 3), Choice (U. S. No. 4), and Medium (U. S. No. 5) shall not exceed 14.5.

Color and general appearance.—Rice of the grade Extra Fancy (U. S. No. 1) shall be white or creamy and shall be well milled. Rice of the grade Fancy (U. S. No. 2) shall be white, creamy, or grayish, and shall be well milled. Rice of the grade Extra Choice (U. S. No. 3) shall be white, creamy, or grayish, and shall be reasonably well milled. Rice of the grade Choice (U. S. No. 4) shall be white, creamy, or grayish, and may be slightly rosy, and shall be reasonably well milled. Rice of the grade Medium (U. S. No. 5) may be of slightly damaged or red appearance.

SECOND HEAD MILLED RICE (CLASS IX)

This class shall consist of milled rice which contains not more than 25 per cent of whole kernels, not more than 50 per cent of broken kernels which will pass readily through a No. 6½ sieve, and not more than 10 per cent of broken kernels which will pass readily through a No. 6 sieve.

Grade requirements for the class Second Head milled rice

United States grade	Maximum limits of—					
	Cereal grains, seeds, and heat damage (number in 500 grams)		Red rice and damage other than heat (singly or combined)	Chalky kernels	Broken kernels	
	Total	Heat damage and seeds (singly or combined)			Through No. 6 sieve	Through No. 6½ sieve
	Number	Number	Per cent	Per cent	Per cent	Per cent
Extra Fancy (U. S. No. 1)-----	20	15	1	3	3	15
Fancy (U. S. No. 2)-----	25	20	2	5	5	25
Extra Choice (U. S. No. 3)-----	40	35	4	10	7	35
Choice (U. S. No. 4)-----	60	50	6	15	10	50
Medium (U. S. No. 5)-----	110	100	10	20	10	50

Sample grade: Sample grade shall be milled rice of the class Second Head which does not come within the requirements of any of the grades from Extra Fancy (U. S. No. 1) to Medium (U. S. No. 5), inclusive, or which has any commercially objectionable foreign odor, or is musty or sour, or is heating, or hot, or is of a badly damaged or extremely red appearance, or is otherwise of distinctly low quality, or contains more than 0.1 per cent of foreign material, excepting paddy grains, other cereal grains, and seeds.

The percentage of moisture in grades Extra Fancy (U. S. No. 1), Fancy (U. S. No. 2), Extra Choice (U. S. No. 3), Choice (U. S. No. 4) and Medium (U. S. No. 5) shall not exceed 14.5.

Color and general appearance.—Rice of the grades Extra Fancy (U. S. No. 1), Fancy (U. S. No. 2), and Extra Choice (U. S. No. 3) shall be white, creamy, or grayish. Rice of the grade Choice (U. S. No. 4) may be of slightly damaged or slightly rosy appearance. Rice of the grade Medium (U. S. No. 5) may be of slightly damaged or red appearance.

SCREENINGS MILLED RICE (CLASS X)

This class shall consist of milled rice which contains not more than 25 per cent of whole kernels, which does not meet the requirements of size separations specified for the class second head milled rice, and which contains not more than 15 per cent of broken kernels which will pass readily through a No. 5½ sieve. This class shall be divided into two subclasses: (a) Screenings milled rice and (b) California-Japan screenings milled rice.

SUBCLASS (A) SCREENINGS MILLED RICE

This subclass shall include all screenings milled rice possessing the characteristics of rice of this class as grown east of the Rocky Mountains.

Grade requirements for the subclass Screenings milled rice

United States grade	Maximum limits of—			
	Cereal grains and seeds (number in 500 grams)	Chalky kernels	Broken kernels	
			Through No. 5½ sieve	Through No. 6 sieve
	<i>Number</i>	<i>Per cent</i>	<i>Per cent</i>	<i>Per cent</i>
Extra Fancy (U. S. No. 1).....	20	5	4	20
Fancy (U. S. No. 2).....	50	8	6	30
Extra Choice (U. S. No. 3).....	90	12	8	40
Choice (U. S. No. 4).....	140	20	10	50
Medium (U. S. No. 5).....	250	30	15	60

Sample grade: Sample grade shall be milled rice of the Subclass Screenings milled rice which does not come within the requirements of any of the grades from Extra Fancy (U. S. No. 1) to Medium (U. S. No. 5), inclusive, or which has any commercially objectionable foreign odor, or is musty, or sour, or is heating or hot, or is of a badly damaged or extremely red appearance, or is otherwise of distinctly low quality, or contains more than 0.1 per cent of foreign material excepting paddy grains, other cereal grains, and seeds.

The percentage of moisture in grades Extra Fancy (U. S. No. 1), Fancy (U. S. No. 2), Extra Choice (U. S. No. 3), Choice (U. S. No. 4), and Medium (U. S. No. 5) shall not exceed 14.5.

Color and general appearance.—Rice of the grades Extra Fancy (U. S. No. 1) and Fancy (U. S. No. 2) shall be white, creamy, or grayish. Rice of the grade Extra Choice (U. S. No. 3) shall be white, creamy, or grayish, and may be slightly rosy. Rice of the grade Choice (U. S. No. 4) may be of slightly damaged or rosy appearance. Rice of the grade Medium (U. S. No. 5) may be of damaged or red appearance.

SUBCLASS (B) CALIFORNIA-JAPAN SCREENINGS MILLED RICE

This subclass shall include all screenings milled rice made from the rice known commercially as Japan possessing the characteristics of rice of this class as grown west of the Great Plains area of the United States.

Grade requirements for the subclass California-Japan Screenings milled rice

United States grade	Maximum limits of—			
	Cereal grains and seeds number in 500 grams)	Chalky kernels	Broken kernels	
			Through No. 5½ sieve	Through No. 6 sieve
	<i>Number</i>	<i>Per cent</i>	<i>Per cent</i>	<i>Per cent</i>
Extra Fancy (U. S. No. 1).....	30	5	4	20
Fancy (U. S. No. 2).....	75	8	6	30
Extra Choice (U. S. No. 3).....	125	12	8	40
Choice (U. S. No. 4).....	175	20	10	50
Medium (U. S. No. 5).....	250	20	10	50

Sample grade: Sample grade shall be milled rice of the subclass California-Japan screenings milled rice, which does not come within the requirements of any of the grades from Extra Fancy (U. S. No. 1) to Medium (U. S. No. 5), inclusive, or which has any commercially objectionable foreign odor, or is musty, or sour, or is heating, or hot, or is of a badly damaged or extremely red appearance, or is otherwise of distinctly low quality, or contains more than 0.1 per cent of foreign material, excepting paddy grains, other cereal grains, and seeds.

The percentage of moisture in grades Extra Fancy (U. S. No. 1), Fancy (U. S. No. 2), Extra Choice (U. S. No. 3), Choice (U. S. No. 4), and Medium (U. S. No. 5) shall not exceed 14.5.

Color and general appearance.—Rice of the grades Extra Fancy (U. S. No. 1), Fancy (U. S. No. 2), Extra Choice (U. S. No. 3), and Choice (U. S. No. 4) shall be white, creamy, or grayish. Rice of the grade Medium (U. S. No. 5) may be slightly damaged or slightly rosy.

BREWERS MILLED RICE (CLASS XI)

This class shall consist of milled rice which contains not more than 25 per cent of whole kernels and contains more than 15 per cent of broken kernels which will pass readily through a No. 5½ sieve. This class shall be divided into two subclasses: (a) Brewers milled rice and (b) California-Japan Brewers milled rice.

SUBCLASS (A) BREWERS MILLED RICE

This subclass shall include all Brewers milled rice possessing the characteristics of rice of this class as grown east of the Rocky Mountains.

Grade requirements for the subclass brewers milled rice

United States grade	Cereal grains and seeds (maximum limits)		Color and general appearance
	Number in 500 grams	Percentage	
Extra Fancy (U. S. No. 1)-----	<i>Number</i> 60	<i>Per cent</i>	White, creamy, or grayish.
Fancy (U. S. No. 2)-----		0.1	Do.
Extra Choice (U. S. No. 3)-----		.2	White, creamy, or grayish, and may be slightly rosy.
Choice (U. S. No. 4)-----		.4	May be of slightly damaged or rosy appearance.
Medium (U. S. No. 5)-----		1.5	May be of damaged or red appearance.

Sample grade: Sample grade shall be milled rice of the subclass Brewers milled rice which does not come within the requirements of any of the grades from Extra Fancy (U. S. No. 1) to Medium (U. S. No. 5), inclusive, or which has any commercially objectionable foreign odor, or is musty, or sour, or heating, or hot, or is of a badly damaged or extremely red appearance, or is otherwise of distinctly low quality, or contains more than 0.1 per cent of foreign material excepting paddy grains, other cereal grains, and seeds.

The percentage of moisture in grades Extra Fancy (U. S. No. 1), Fancy (U. S. No. 2), Extra Choice (U. S. No. 3), Choice (U. S. No. 4), and Medium (U. S. No. 5) shall not exceed 14.5.

SUBCLASS (B) CALIFORNIA-JAPAN BREWERS MILLED RICE

This subclass shall include all Brewers milled rice made from the rices known commercially as Japan possessing the characteristics of rice of this class as grown west of the Great Plains area of the United States.

Grade requirements for the subclass California-Japan Brewers milled rice

United States grade	Cereal grains and seeds (maximum limits)	Color and general appearance
	<i>Per cent</i>	
Extra Fancy (U. S. No. 1)-----	0.5	White, creamy, or grayish.
Fancy (U. S. No. 2)-----	1.0	Do.
Extra Choice (U. S. No. 3)-----	1.5	Do.
Choice (U. S. No. 4)-----	3.0	May be slightly damaged or slightly rosy.
Medium (U. S. No. 5)-----	5.0	May be damaged or rosy.

Sample grade: Sample grade shall be milled rice of the subclass California-Japan Brewers milled rice which does not come within the requirements of any of the grades from Extra Fancy (U. S. No. 1) to Medium (U. S. No. 5), inclusive, or which has any commercially objectionable foreign odor, or is musty, or sour, or is heating, or hot, or is of a badly damaged or extremely red appearance, or is otherwise of distinctly low quality, or contains more than 0.1 per cent of foreign material excepting paddy grains, other cereal grains, and seeds.

The percentage of moisture in grades Extra Fancy (U. S. No. 1), Fancy (U. S. No. 2), Extra Choice (U. S. No. 3), Choice (U. S. No. 4), and Medium (U. S. No. 5) shall not exceed 14.5.

GRADES FOR MIXED MILLED RICE

Mixed milled rice.—Mixed milled rice shall be a mixture of any two or more of Classes I, II, III, IV, V, VI, VII, and VIII, which does not meet the requirements of any one of such classes.

Mixed milled rice shall be graded according to each of the grade requirements common to the class or subclass of the milled rice which predominates over each other class or subclass in the mixture, except that all of the grade requirements in any class as to the maximum percentages of other rices shall be disregarded. The grade designation of Mixed milled rice shall include, successively, in the order named, the name of the grade, or the number thereof, the word "Mixed,"

and, in the order of its predominance, the name and approximate percentage of each class or subclass of milled rice which constitutes 10 per cent or more of the mixture; but if only one class or subclass exceeds 10 per cent of the mixture, the name and approximate percentage of that class or subclass shall be added to the grade designation, followed by the name and approximate percentage of at least one other class or subclass.

GRADES FOR COATED MILLED RICE

Coated milled rice.—Coated milled rice shall be milled rice which has been coated with glucose and talc or any other substance.

Coated milled rice shall be graded and designated according to the grade requirements of the grades applicable to such rice if it were not coated, and there shall be added to and made a part of such grade designation the word "Coated."

GRADES FOR WEEVILY MILLED RICE

Weevily milled rice.—Weevily milled rice shall be milled rice in which adult live weevils or other insects injurious to stored rice, or their larvæ, or clusters of webby material are found in a number exceeding 1 in 500 grams of milled rice.

Weevily milled rice shall be graded and designated according to the grade requirements of the grades applicable to such rice if it were not weevily, and there shall be added to and made a part of such grade designation the word "Weevily."

DEFINITIONS

Basis of determinations.—Each determination of cereal grains, seeds, or other foreign material, heat-damaged kernels, temperature, odor, live weevils, or other insects injurious to stored rice, moisture content, and general appearance shall be made on the basis of the grain including foreign material. All other determinations shall be made on the basis of the grain when free from foreign material.

Percentages.—Percentages, except in the case of moisture, shall be percentages ascertained by weight.

Percentage of moisture.—Percentage of moisture shall be that ascertained by the moisture tester and the method of use thereof described in Bulletin 1375, dated February, 1926, issued by the United States Department of Agriculture, Bureau of Agricultural Economics, or ascertained by any device and method giving equivalent results.

No. 5½ sieve.—A metal sieve perforated with round holes five and one-half sixty-fourths inch in diameter.

No. 6 sieve.—A metal sieve perforated with round holes six sixty-fourths inch in diameter.

No. 6½ sieve.—A metal sieve perforated with round holes six and one-half sixty-fourths inch in diameter.

Damaged kernels.—Damaged kernels shall be kernels and pieces of kernels of milled rice which have been distinctly damaged by water, insects, or by any other means. Sound double and sound broken kernels shall not be considered damaged kernels.

Heat-damaged kernels.—Heat-damaged kernels shall be kernels and pieces of kernels of milled rice which have been distinctly discolored by external heat or as a result of heating caused by fermentation.

Cereal grains.—Cereal grains shall include paddy grains (rough rice), barley, wheat, rye, emmer, spelt, einkorn, corn, grain sorghums, and oats, and shall not include buckwheat, flaxseed, and wild oats.

Seeds.—Seeds shall be grains, kernels, or seeds, either whole or broken, of any plant other than rice or cereal grains.

Red rice.—Red rice shall be kernels or pieces of kernels of milled rice which are distinctly red in color or have any appreciable amount of red bran thereon.

Broken kernels.—Broken kernels shall be split kernels of milled rice and pieces of kernels which are less than three-fourths of the length of the perfect kernel.

Chalky kernels.—Chalky kernels shall be kernels and pieces of kernels of milled rice one-half or more of which is chalky.

STANDARDS FOR BROWN RICE

For the purposes of the United States standards for brown rice:

Brown rice.—Brown rice shall be rice grown in continental United States from which the hulls only have been removed from not less than 90 per cent of the kernels, and which does not contain more than 10 per cent of cereal grains of a

kind or kinds other than rice, seeds, or other foreign material, either singly or in any combination.

NOTE.—Brown rice for the purposes of the standards is divided into classes and subclasses as follows: Class I, Honduras brown rice; Class II, Edith brown rice; Class III, Fortuna brown rice; Class IV, Carolina brown rice; Class V, Lady Wright brown rice; Class VI, Blue Rose brown rice; Class VII, Early Prolific brown rice; Class VIII, Japan brown rice; divided into subclasses (a) Japan brown rice and (b) California-Japan brown rice; and Mixed brown rice.

HONDURAS BROWN RICE (CLASS I)

This class shall include the rices known commercially as Honduras and Mortgage Lifter, and may include not more than 10 per cent of whole kernels of rice of any other class or classes.

EDITH BROWN RICE (CLASS II)

This class shall include the rice known commercially as Edith, and may include not more than 10 per cent of whole kernels of rice of any other class or classes.

FORTUNA BROWN RICE (CLASS III)

This class shall include the rice known commercially as Fortuna, and may include not more than 10 per cent of whole kernels of rice of any other class or classes.

CAROLINA BROWN RICE (CLASS IV)

This class shall include the rices known commercially as Carolina and Storm Proof, and may include not more than 10 per cent of whole kernels of rice of any other class or classes.

LADY WRIGHT BROWN RICE (CLASS V)

This class shall include the rice known commercially as Lady Wright, and may include not more than 10 per cent of whole kernels of rice of any other class or classes.

*Grade requirements for the classes Honduras, Edith, Fortuna, Carolina, and Lady Wright brown rice**

United States grade	Maximum limits of—										
	Cereal grains, seeds, mud lumps, and heat-damaged kernels (number in 500 grams)				Paddy grains	Red rice	Damage other than heat	Chalky kernels	Broken kernels		Other rices
	Cereal grains	Seeds	Heat-damaged kernels	Mud lumps					Total	Through No. 6½ sieve	
No.	No.	No.	No.	Per ct.	Per ct.	Per ct.	Per ct.	Per ct.	Per ct.	Per ct.	
Extra Fancy..	0	2	0	1	0.2	0.5	1	1.5	10	1	1
Fancy.....	1	5	1	2	.4	1.0	3	2.5	15	2	2
Choice.....	5	10	5	5	1.0	3.0	5	5.0	20	3	4

Sample grade: Sample grade shall be brown rice of the class Honduras, Edith, Fortuna, Carolina, or Lady Wright, respectively, which does not come within the requirements for any of the grades from Extra Fancy to choice, inclusive, or which has any commercially objectionable foreign odor, or is musty, or sour, or is heating, or hot, or is of a badly damaged or badly stained appearance, or is otherwise of distinctly low quality, or contains more than 0.1 per cent of foreign material excepting paddy grains, other cereal grains, seeds, and mud lumps, or contains more than 14.5 per cent of moisture.

BLUE ROSE BROWN RICE (CLASS VI)

This class shall include the rices known commercially as Blue Rose, Greater Blue Rose, and Improved Blue Rose, and may include not more than 10 per cent of whole kernels of rice of any other class or classes.

EARLY PROLIFIC BROWN RICE (CLASS VII)

This class shall include the rice known commercially as Early Prolific, and may include not more than 10 per cent of whole kernels of rice of any other class or classes.

JAPAN BROWN RICE (CLASS VIII)

This class shall include the rices known commercially as Japan, and may include not more than 10 per cent of whole kernels of rice of any other class or classes. This class shall be divided into two subclasses designated as (a) Japan brown rice, and (b) California-Japan brown rice.

SUBCLASS (A) JAPAN BROWN RICE

This subclass shall include all rices known commercially as Japan possessing the characteristics of rice of this class as grown east of the Rocky Mountains.

Grade requirements for the classes Blue Rose and Early Prolific brown rice and the subclass Japan brown rice

United States grade	Maximum limits of—										
	Cereal grains, seeds, mud lumps, and heat-damaged kernels (number in 500 grams)				Paddy grains	Red rice	Damage other than heat	Chalky kernels	Broken kernels		Other rices
	Cereal grains	Seeds	Heat damaged kernels	Mud lumps					Total	Through No. 6½ sieve	
No.	No.	No.	No.	Per ct.	Per ct.	Per ct.	Per ct.	Per ct.	Per ct.	Per ct.	
Extra Fancy..	0	2	0	1	0.2	0.5	1	1.5	5	1	1
Fancy.....	1	5	1	2	.4	1.0	3	2.5	10	2	2
Choice.....	5	10	5	5	1.0	3.0	5	5.0	15	3	4

Sample grade: Sample grade shall be brown rice of the class Blue Rose or Early Prolific or the subclass Japan, respectively, which does not come within the requirements for any of the grades from Extra Fancy to choice, inclusive, or which has any commercially objectionable foreign odor, or is musty or sour, or is heating, or hot, or is of a badly damaged or badly stained appearance, or is otherwise of distinctly low quality, or contains more than 0.1 per cent of foreign material excepting paddy grains, other cereal grains, seeds, and mud lumps, or contains more than 14.5 per cent of moisture.

SUBCLASS (B) CALIFORNIA-JAPAN BROWN RICE

This subclass shall include all rices known commercially as Japan possessing the characteristics of rice of this class as grown west of the Great Plains area of the United States.

Grade requirements for the subclass California-Japan brown rice

United States grade	Maximum limits of—										
	Cereal grains, seeds, mud lumps, and heat-damaged kernels (number in 500 grams)				Paddy grains	Red rice	Damage other than heat	Chalky kernels	Broken kernels		Other rices
	Cereal grains	Seeds	Heat damaged kernels	Mud lumps					Total	Through No. 6½ sieve	
Fancy----- 1----- 2-----	No. 1 3 5	No. 25 50 75	No 1 3 5	No. 1 3 5	Per ct. 0.2 .2 .4	Per ct. 0.2 .4 .7	Per ct. 0.3 .7 1.5	Per ct. 3 6 10	Per ct. 10 10 15	Per ct. 1 2 3	Per ct. 0.1 .2 .4

Sample grade: Sample grade shall be brown rice of the subclass California-Japan Brown Rice which does not come within the requirements for any of the grades from Fancy to No. 2, inclusive, or which has any commercially objectionable foreign odor, or is musty or sour, or is heating, or hot, or is of a badly damaged or badly stained appearance, or is otherwise of distinctly low quality, or contains more than 0.1 per cent of foreign material excepting paddy grains, other cereal grains, seeds, and mud lumps, or contains more than 15 per cent of moisture.

GRADES FOR MIXED BROWN RICE

Mixed brown rice.—Mixed brown rice shall be a mixture of any two or more of Classes I, II, III, IV, V, VI, VII, and VIII which does not meet the requirements of any one of such classes.

Mixed brown rice shall be graded according to each of the grade requirements common to the class or subclass of brown rice which predominates over each other class or subclass in the mixture, except that all of the grade requirements in any class as to the maximum percentages of other rices shall be disregarded. The grade designation of Mixed brown rice shall include, successively, in the order named, the name of the grade or the number thereof, the word "Mixed," and, in the order of its predominance, the name and approximate percentage of each class or subclass of brown rice which constitutes 10 per cent or more of the mixture; but if only one class or subclass exceeds 10 per cent of the mixture the name and approximate percentage of that class or subclass shall be added to the grade designation, followed by the name and approximate percentage of at least one other class or subclass.

GRADES FOR WEEVILY BROWN RICE

Weevily brown rice.—Weevily brown rice shall be all brown rice which is infested with live weevils or other insects injurious to stored rice.

Weevily brown rice shall be graded and designated according to the grade requirements of the grade applicable to such rice if it were not weevily, and there shall be added to and made a part of such grade designation the word "Weevily."

DEFINITIONS

Basis of determination.—All determinations shall be upon the basis of the lot of rice as a whole.

Percentages.—Percentages, except in the case of moisture, shall be percentages ascertained by weight.

Percentage of moisture.—Percentage of moisture shall be that ascertained by the moisture tester and the method of use thereof described in Bulletin 1375, dated February, 1926, issued by the United States Department of Agriculture, Bureau of Agricultural Economics, except that the flame shall be extinguished when the thermometer registers 200° C., or ascertained by any device and method giving equivalent results.

No. 6½ sieve.—A metal sieve perforated with round holes six and one-half sixty-fourths inch in diameter.

Damaged kernels.—Damaged kernels shall be kernels and pieces of kernels of brown rice which have been distinctly damaged by water, insects, or by any other means. Sound double and sound broken kernels shall not be considered damaged kernels.

Heat-damaged kernels.—Heat-damaged kernels shall be kernels and pieces of kernels of brown rice which have been distinctly discolored by external heat or as a result of heating caused by fermentation.

Cereal grains.—Cereal grains shall include barley, wheat, rye, emmer, spelt, einkorn, corn, grain sorghums, and oats, and shall not include buckwheat, flaxseed, and wild oats.

Seeds.—Seeds shall be grains, kernels, or seeds, either whole or broken of any plant other than rice or cereal grains.

Red rice.—Red rice shall be kernels or pieces of kernels of brown rice which are distinctly red in color or have any appreciable amount of red bran thereon.

Broken kernels.—Broken kernels shall be split kernels of brown rice and pieces of kernels which are less than three-fourths of the length of the perfect kernel.

Chalky kernels.—Chalky kernels shall be kernels and pieces of kernels of brown rice one-half or more of which is chalky.

Mud lumps.—Mud lumps shall be lumps of dried mud which will not pass through a No. 6½ sieve. Mud lumps which will pass through a No. 6½ sieve shall function in grading only as foreign material.

Paddy grains.—Paddy grains shall be kernels of rice from which the hulls have not been removed.

STANDARDS FOR ROUGH RICE

For the purposes of the United States standards for rough rice:

Rough rice.—Rough rice shall be rice grown in continental United States which contains not less than 50 per cent of kernels of rice from which the hulls have not been removed, and which may contain not more than 50 per cent of matter other than rice and not more than 10 per cent of cereal grains of a kind or kinds other than rice.

HONDURAS ROUGH RICE (CLASS I)

This class shall include the rices known commercially as Honduras and Mortgage Lifter, and may include not more than 10 per cent of whole kernels of rice of any other class or classes.

EDITH ROUGH RICE (CLASS II)

This class shall include the rice known commercially as Edith, and may include not more than 10 per cent of whole kernels of rice of any other class or classes.

FORTUNA ROUGH RICE (CLASS III)

This class shall include the rice known commercially as Fortuna, and may include not more than 10 per cent of whole kernels of rice of any other class or classes.

CAROLINA ROUGH RICE (CLASS IV)

This class shall include the rices known commercially as Carolina and Storm Proof, and may include not more than 10 per cent of whole kernels of rice of any other class or classes.

LADY WRIGHT ROUGH RICE (CLASS V)

This class shall include the rice known commercially as Lady Wright, and may include not more than 10 per cent of whole kernels of rice of any other class or classes.

BLUE ROSE ROUGH RICE (CLASS VI)

This class shall include the rices known commercially as Blue Rose, Greater Blue Rose, and Improved Blue Rose, and may include not more than 10 per cent of whole kernels of rice of any other class or classes.

EARLY PROLIFIC ROUGH RICE (CLASS VII)

This class shall include the rice known commercially as Early Prolific, and may include not more than 10 per cent of whole kernels of rice of any other class or classes.

JAPAN ROUGH RICE (CLASS VIII)

This class shall include the rices known commercially as Japan, and may include not more than 10 per cent of whole kernels of rice of any other class or classes. This class shall be divided into two subclasses designated as (a) Japan rough rice and (b) California-Japan rough rice.

SUBCLASS (A) JAPAN ROUGH RICE

This subclass shall include all rices known commercially as Japan possessing the characteristics of rice of this class as grown east of the Rocky Mountains.

Grade requirements for the classes Honduras, Edith, Fortuna, Carolina, Lady Wright, Blue Rose, and Early Prolific rough rice, and for the subclass Japan rough rice

United States grade No.	Maximum limits of—						
	Damaged kernels		Red rice	Foreign material and finely broken kernels			Rice of other classes
	Total	Heat damage		Separable	Inseparable		
					Mud lumps	Cereal grains	
	<i>Per cent</i>	<i>Per cent</i>	<i>Per cent</i>	<i>Per cent</i>	<i>Per cent</i>	<i>Per cent</i>	<i>Per cent</i>
1-----	2	0.0	0.5	2	0.0	0.0	1
2-----	4	.1	3.0	4	.1	.1	2
3-----	7	.2	6.0	7	.2	.2	4
4-----	10	.3	10.0	10	.3	.3	6
5-----	15	.4	20.0	15	.5	.5	10
6-----	15	.5	30.0	15	1.0	1.0	10

Sample grade: Sample grade shall be rough rice of the class Honduras, or Edith, or Fortuna, or Carolina or Lady Wright, or Blue Rose, or Early Prolific, or the subclass Japan, respectively, which does not come within the requirements for any of the grades from No. 1 to No. 6, inclusive, or which has any commercially objectionable foreign odor, or is sour, heating, or hot, or is otherwise of distinctly low quality. The rough rice in each grade above sample grade shall be cool.

SUBCLASS (B) CALIFORNIA-JAPAN ROUGH RICE

This subclass shall include all rices known commercially as Japan possessing the characteristics of rice of this class as grown west of the Great Plains area of the United States.

Grade requirements for the subclass California-Japan rough rice

United States grade No.	Maximum limits of—						
	Damaged kernels		Red rice	Foreign material and finely broken kernels			Rice of other classes
	Total	Heat damage		Sepa- rable	Inseparable		
					Mud lumps	Cereal grains	
	<i>Per cent</i>	<i>Per cent</i>	<i>Per cent</i>	<i>Per cent</i>	<i>Per cent</i>	<i>Per cent</i>	<i>Per cent</i>
1-----	0.2	0.0	0.1	2	0.0	0.0	0.1
2-----	.4	.1	.2	4	.1	.1	.2
3-----	.7	.2	.5	7	.2	.2	.4
4-----	1.0	.3	1.0	10	.3	.3	.6
5-----	1.5	.4	2.0	15	.5	.5	1.0
6-----	2.0	.5	5.0	20	1.0	1.0	1.0

Sample grade: Sample grade shall be rough rice of the subclass California-Japan which does not come within the requirements for any of the grades from No. 1 to No. 6, inclusive, or which has any commercially objectionable foreign odor, or is sour, heating, or hot, or is otherwise of distinctly low quality. The rough rice in each grade above sample grade shall be cool.

GRADES FOR MIXED ROUGH RICE

Mixed rough rice.—Mixed rough rice shall be a mixture of any two or more of Classes, I, II, III, IV, V, VI, VII, and VIII which does not meet the requirements of any one of such classes.

Mixed rough rice shall be graded according to each of the grade requirements common to the class or subclass of rough rice which predominates over each other class or subclass in the mixture, except that all of the grade requirements in any

class as to the maximum percentages of other rices shall be disregarded. The grade designation of mixed rough rice shall include, successively, in the order named, the number of the grade, the word "Mixed," and, in the order of its predominance, the name and approximate percentage of each class or subclass of rough rice which constitutes 10 per cent or more of the mixture; but if only one class or subclass exceeds 10 per cent of the mixture the name and approximate percentage of that class or subclass shall be added to the grade designation, followed by the name and approximate percentage of at least one other class or subclass.

GRADES FOR DAMP AND WET ROUGH RICE

Damp rough rice.—In the case of rice other than of the subclass California Japan rough rice all rough rice containing more than 14 per cent but not more than 15.5 per cent of moisture shall be considered damp.

In the case of rice of the subclass California-Japan rough rice all rough rice containing more than 15 per cent but not more than 16 per cent of moisture shall be considered damp.

Damp rough rice shall be graded and designated according to the grade requirements of the grade applicable to such rice if it were not damp, and there shall be added to and made a part of such grade designation the word "Damp."

Wet rough rice.—In the case of rice other than of the subclass California-Japan rough rice all rough rice containing more than 15.5 per cent but not more than 17 per cent of moisture shall be considered wet.

In the case of rice of the subclass California-Japan rough rice all rough rice containing more than 16 per cent but not more than 17 per cent of moisture shall be considered wet.

Wet rough rice shall be graded and designated according to the grade requirements of the grade applicable to such rice if it were not wet, and there shall be added to and made a part of such grade designation the word "Wet."

NOTE.—All rough rice containing more than 17 per cent of moisture shall be considered of low quality and shall be graded "Sample grade."

GRADES FOR SEEDY AND VERY SEEDY ROUGH RICE

The determination of whether rough rice is seedy, very seedy, or sample grade on account of seeds shall be made after the removal of separable foreign material.

Seedy rough rice.—If, after the removal of separable foreign material, in the case of rice other than of the subclass California-Japan rough rice, rough rice contains more than 0.1 per cent but not more than 0.5 per cent of weed seeds it shall be considered seedy.

If, after the removal of separable foreign material, in the case of rice of the subclass California-Japan rough rice, rough rice contains more than 0.5 per cent but not more than 1.5 per cent of weed seeds it shall be considered seedy.

Seedy rough rice shall be graded and designated according to the grade requirements of the grade applicable to such rice if it were not seedy, and there shall be added to and made a part of such grade designation the word "Seedy."

Very seedy rough rice.—If, after the removal of separable foreign material, in the case of rice other than of the subclass California-Japan rough rice, rough rice contains more than 0.5 per cent but not more than 1 per cent of weed seeds it shall be considered very seedy.

If, after the removal of separable foreign material, in the case of rice of the subclass California-Japan rough rice, rough rice contains more than 1.5 per cent but not more than 3 per cent of weed seeds it shall be considered very seedy.

Very seedy rough rice shall be graded and designated according to the grade requirements of the grade applicable to such rice if it were not very seedy, and there shall be added to and made a part of such grade designation the words "Very seedy."

NOTE.—If, after the removal of separable foreign material, in the case of rice other than of the subclass California-Japan rough rice, rough rice contains more than 1 per cent of weed seeds it shall be considered of low quality and shall be graded "Sample grade". If, after the removal of separable foreign material, in the case of rice of the subclass California-Japan rough rice, rough rice contains more than 3 per cent of weed seeds it shall be considered of low quality and shall be graded "Sample grade."

GRADES FOR WEEVILY ROUGH RICE

Weevily rough rice.—Weevily rough rice shall be all rough rice which is infested with live weevils or other insects injurious to stored rice.

Weevily rough rice shall be graded and designated according to the grade requirements of the grade applicable to such rice if it were not weevily, and there shall be added to and made a part of such grade designation the word "Weevily."

GRADES FOR STAINED, MUD-DRAGGED, AND MUSTY ROUGH RICE

Stained rough rice.—Stained rough rice shall be rough rice which has been distinctly discolored by climatic conditions or in any other manner.

Stained rough rice shall be graded and designated according to the grade requirements of the grade applicable to such rice if it were not stained, and there shall be added to and made a part of such grade designation the word "stained."

Mud-dragged rough rice.—Mud-dragged rough rice shall be rough rice in which there are more than 2 per cent of kernels with a distinct amount of mud clinging to them.

Mud-dragged rough rice shall be graded and designated according to the grade requirements of the grade applicable to such rice if it were not mud-dragged, and there shall be added to and made a part of such grade designation the word "Mud-dragged."

Musty rough rice.—Musty rough rice shall be rough rice which has an unmistakable musty odor.

Musty rough rice shall be graded and designated according to the grade requirements of the grade applicable to such rice if it were not musty, and there shall be added to and made a part of such grade designation the word "Musty."

MILLING QUALITY

Milling quality shall be based on the value of the rough rice for milling purposes. The test for milling quality shall be determined by use of the Smith shelling device, described in mimeograph circular USGSA-GI, No. 34, dated August, 1925, issued by the Bureau of Agricultural Economics, United States Department of Agriculture, or as determined by any device or method giving equivalent results.

Milling quality shall be determined as prime milling quality, good milling quality, medium milling quality, fair milling quality, ordinary milling quality, or low milling quality. The milling quality so determined and stated shall be added to the grade designation.

DEFINITIONS

Basis of determinations.—Each determination of general appearance, temperature, odor, moisture, separable foreign material and finely broken kernels, milling quality, mud-dragged, and insects injurious to stored rice shall be on the basis of the lot of rice as a whole. Each determination of red rice, damaged kernels, and other classes shall be upon the basis of the rice after shelling. All other determinations shall be upon the basis of the rice when free from separable foreign material and finely broken kernels and before shelling.

Percentages.—Percentages, except in the case of moisture, shall be percentages ascertained by weight.

Percentage of moisture.—Percentage of moisture shall be that ascertained by the moisture tester and the method of use thereof described in Bulletin No. 1375, dated February, 1926, issued by the United States Department of Agriculture, Bureau of Agricultural Economics, except that the flame shall be extinguished when the thermometer registers 200° C., or ascertained by any device and method giving equivalent results.

Damaged kernels.—Damaged kernels shall be kernels and pieces of kernels of rough rice which have been distinctly damaged by water, insects, or by any other means. Sound broken kernels and kernels of which the hulls only have been damaged shall not be considered as damaged kernels.

Heat-damaged kernels.—Heat-damaged kernels shall be kernels and pieces of kernels of rough rice which have been distinctly discolored by external heat or as a result of heating caused by fermentation.

Separable foreign material and finely broken kernels.—Separable foreign material and finely broken kernels shall be all matter other than rice which will not pass through a No. 12 sieve and all kernels and pieces of kernels of rough rice and all foreign matter which will pass through a No. $6\frac{1}{2}$ sieve.

No. 12 sieve.—A metal sieve perforated with round holes twelve sixty-fourths inch in diameter.

No. $6\frac{1}{4}$ sieve.—A metal sieve perforated with round holes six and one-half sixty-fourths inch in diameter.

Mud lumps.—Mud lumps shall be lumps of dried mud which will pass through a No. 12 sieve but which will not pass through a No. $6\frac{1}{2}$ sieve. Mud lumps which will not pass through a No. 12 sieve or which will pass through a No. $6\frac{1}{2}$ sieve shall function in grading only as "separable foreign material and finely broken kernels."

Cereal grains.—Cereal grains shall include barley, rye, wheat, emmer, spelt, einkorn, corn, grain sorghums, and oats, and shall not include buckwheat, flaxseed, and wild oats. Cereal grains which will not pass through a No. 12 sieve or which will pass through a No. $6\frac{1}{2}$ sieve shall function in grading only as "separable foreign material and finely broken kernels."

Weed seeds.—Weed seeds shall be grains, kernels, or seeds, either whole or broken, of any plant other than rice or other cereal grains. Weed seeds which will not pass through a No. 12 sieve or which will pass through a No. $6\frac{1}{2}$ sieve shall function in grading only as "separable foreign material and finely broken kernels."

Red rice.—Red rice shall be whole or broken kernels of rice of which the bran is distinctly red or pink in color.

United States Department of Agriculture

BUREAU OF AGRICULTURAL ECONOMICS

SERVICE AND REGULATORY ANNOUNCEMENTS NO. 108, AMENDMENT NO. 1

AMENDMENT TO THE STANDARDS FOR ROUGH RICE

By virtue of the authority vested in the Secretary of Agriculture by the act of Congress entitled "An act making appropriations for the Department of Agriculture for the fiscal year ending June 30, 1930, and for other purposes," approved February 16, 1929 (Public, No. 769, 70th Cong.), I, R. W. Dunlap, Acting Secretary of Agriculture, do make, prescribe, publish, and give public notice of the following amendments to the standards for rough rice, as promulgated in Service and Regulatory Announcement No. 108, issued October, 1927, said amendments to be effective September 20, 1929, and to continue in force and effect as long as Congress shall provide the necessary authority therefor, unless amended or superseded by standards hereafter prescribed and promulgated under such authority.

Amend the definition for rough rice to read as follows:

Rough rice.—Rough rice shall be rice of the kinds specified in the classes of these standards, which contains not less than 50 per cent of kernels of rice from which the hulls have not been removed, and which may contain not more than 50 per cent of matter other than rice and not more than 10 per cent of cereal grains of a kind or kinds other than rice.

Amend the grade requirements for the classes Honduras, Edith, Fortuna, Carolina, Lady Wright, Blue Rose, and Early Prolific rough rice, and for the subclass Japan rough rice to read as follows:

Grade requirements for the classes Honduras, Edith, Fortuna, Carolina, Lady Wright, Blue Rose, and Early Prolific rough rice, and for the subclass Japan rough rice

United States grade No.	Maximum limits of—						
	Damaged kernels		Red rice	Foreign material and finely broken kernels			Rice of other classes
	Total	Heat damage		Separable	Inseparable		
					Mud lumps	Cereal grains	
	<i>Per cent</i>	<i>Per cent</i>	<i>Per cent</i>	<i>Per cent</i>	<i>Per cent</i>	<i>Per cent</i>	<i>Per cent</i>
1-----	2	0.0	0.5	2	Trace.	Trace.	1
2-----	4	.02	3.0	4	0.02	0.02	2
3-----	7	.04	6.0	7	.04	.04	4
4-----	10	.06	10.0	10	.06	.06	6
5-----	15	.08	20.0	15	.08	.08	10
6-----	15	.1	30.0	15	.1	.1	10

Sample grade: Sample grade shall be rough rice of the class Honduras, or Edith, or Fortuna, or Carolina, or Lady Wright, or Blue Rose, or Early Prolific, or the subclass Japan, respectively, which does not come within the requirements for any of the grades from No. 1 to No. 6, inclusive, or which has any commercially objectionable foreign odor, or is sour, heating, or hot, or is otherwise of distinctly low quality. The rough rice in each grade above sample grade shall be cool.

NOTE.—"Trace" in the above tabulation shall be interpreted to mean "not more than 1 in 500 grams."

Amend the grade requirements for the subclass California-Japan rough rice to read as follows:

SUBCLASS (B) CALIFORNIA-JAPAN ROUGH RICE

This subclass shall include all rices known commercially as Japan possessing the characteristics of rice of this class as grown west of the Great Plains area of the United States.

Grade requirements for the subclass California-Japan rough rice

United States grade No.	Maximum limits of—						
	Damaged kernels		Red rice	Foreign material and finely broken kernels			Rice of other classes
	Total	Heat damage		Separable	Inseparable		
					Mud lumps	Cereal grains	
	<i>Per cent</i>	<i>Per cent</i>	<i>Per cent</i>	<i>Per cent</i>	<i>Per cent</i>	<i>Per cent</i>	<i>Per cent</i>
1-----	0.2	0.0	0.1	2	Trace.	Trace.	0.1
2-----	.4	.02	.2	4	0.02	0.02	.2
3-----	.7	.04	.5	7	.04	.04	.4
4-----	1.0	.06	1.0	10	.06	.06	.6
5-----	1.5	.08	2.0	15	.08	.08	1.0
6-----	2.0	.1	5.0	20	.1	.1	1.0

Sample grade: Sample grade shall be rough rice of the subclass California-Japan which does not come within the requirements for any of the grades from No. 1 to No. 6, inclusive, or which has any commercially objectionable foreign odor, or is sour, heating, or hot, or is otherwise of distinctly low quality. The rough rice in each grade above sample grade shall be cool.

NOTE.—“Trace” in the above tabulation shall be interpreted to mean “not more than 1 in 500 grams.”

On page 15 of Service and Regulatory Announcement No. 108 add the following immediately preceding the heading “Milling Quality.”

**GRADES FOR SLIGHTLY CHALKY, CHALKY, AND VERY CHALKY
ROUGH RICE**

The determination of whether rough rice is slightly chalky, chalky, very chalky, or sample grade on account of chalky kernels shall be made after the hulls have been removed from the rice.

Slightly Chalky rough rice.—All rough rice containing more than 3 per cent but not more than 6 per cent of chalky kernels shall be considered slightly chalky.

Slightly chalky rough rice shall be graded and designated according to the grade requirements of the grade applicable to such rice if it were not slightly chalky, and there shall be added to and made a part of such grade designation the words “Slightly Chalky.”

Chalky rough rice.—All rough rice containing more than 6 per cent but not more than 10 per cent of chalky kernels shall be considered chalky.

Chalky rough rice shall be graded and designated according to the grade requirements of the grade applicable to such rice if it were not chalky, and there shall be added to and made a part of such grade designation the word “Chalky.”

Very Chalky rough rice.—All rough rice containing more than 10 per cent but not more than 15 per cent of chalky kernels shall be considered very chalky.

Very chalky rough rice shall be graded and designated according to the grade requirements of the grade applicable to such rice if it were not very chalky, and there shall be added to and made a part of such grade designation the words “Very Chalky.”

NOTE.—If rough rice contains more than 15 per cent of chalky kernels it shall be considered of low quality and shall be graded “Sample Grade.”

On page 16 of Service and Regulatory Announcement No. 108, line 7, strike out the following:

“No. 6¼ sieve.”

And insert the following in lieu thereof:

“No. 6½ sieve.”



In testimony whereof I have hereunto set my hand and caused the official seal of the Department of Agriculture to be affixed, in the city of Washington, this 20th day of September, 1929.

R. W. DUNLAP,
Acting Secretary of Agriculture.